PROJECT TITLE : CIGARETTE DEVELOPMENT 3

PERIOD COVERED : FEBRUARY 25 - APRIL 29 1981

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266 HARVARD

Objective

To improve the taste quality of MURATTI 2000.
To decrease the smoke delivery to 6 mg TAR.

Summary

Prototype 131 P was product tested against the current MURATTI 2000. There were differences between the two test products in the blend, filter type and cigarette paper used. The tar delivery of the current product was 7.0 mg and that of the prototype 6.0 mg. The tar per puff was identical for both cigarettes (0.84 mg/puff). The purpose of the test was to determine the consumers' preference between the current MURATTI 2000 and prototype 131 in view of the replacement of the former.
The results of the test can be summarized as follows :
Only the smokers of MURATTI 2000 significantly preferred the current product. The other smokers accepted both cigarettes equally well.

Follow-up

In view of the test results, further development seems to be necessary. The new guide-lines will be established during the next meeting with the Marketing Department.

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Source: https://www.industrydocuments.ucsf.edu/docs/xnxk0000

399 TEXAS

Objective

To develop an ultra-low tar cigarette of the air-cured type with the following characteristics :
TAR = 3.0 mg/cig.
SN = 0.3 mg/cig
CO < 5.0 mg/cig.
NO < 0.1 mg/cig.
Puff count : 7
Format : 7.95 / 25 / 79.4 mm

Summary

Prototypes Nos 10 P and 12 P are being tested in an "open" product test against BRUNETTE NO 3 (BRT). The results will be known by the end of April 1981.
In the meantime, a blind product test is being prepared. Prototypes Nos 10 P, 12 P and BRUNETTE NO 3 will be tested against SELECT NO 2. The three PM products for the test will be produced with the tipping paper whose aspect is similar to that of SELECT NO 2.
The test should be ready by May 8th 1981.

364 CALIFORNIA

Objective

1. To reduce the TAR delivery of MURATTI AMBASSADOR (MAA, MAK) to 10 mg/cig.
2. To adapt the PHILIP MORRIS MULTIFILTER 100'S to the new CALIFORNIA blend (containing 18 % of ET-1).
3. To reduce the TAR delivery of MPH to 11 mg/cig.

Summary

The new MAA, MPH prototypes Nos 6 P and 12 P were developed with CALIFORNIA blend containing 18 % of expanded tobacco. Both cigarettes have been accepted by the Swiss Marketing Department. Prototype 6 P was product tested against the current MAA. The prototype was slightly preferred to the current product.
Until now, only the expanded tobacco from PM USA has been used.

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Source: https://www.industrydocuments.ucsf.edu/docs/xnxk0000

Description of samples and results

In view of the availability of the expanded tobacco from Onnens, trials have been carried out in order to compare the two expanded tobaccos.

Prototype No		6 C 1	6 C 2
Blend		CH0336401N02	CH0336402N02
ETNA		18 % ET-FC-US	18 % ET-FC-ONNENS
Tobacco analyses			
Total alkaloids	%	1.47	1.26
Reducing sugars	%	8.0	9.7
Nitrate-nitrogen	%	0.14	0.12
Ammonia-nitrogen	%	0.08	0.06
Smoke analayses			
TAR	mg/cig.	9.6	9.6
SN	mg/cig.	0.79	0.72
Puff count		8.2	8.1

Prototype No		12 P	12 C
Blend		CH0336401N02	CH0336402N02
ETNA		18 % ET-FC-US	18 % ET-FC-ONNENS
Tobacco analyses			
Total alkaloids	%	1.43	1.28
Reducing sugars	%	8.6	9.5
Nitrate-nitrogen	%	0.16	0.13
Ammonia-nitrogen	%	0.06	0.08
Smoke analyses			
TAR	mg/cig.	10.6	11.1
SN	mg/cig.	0.92	0.85
Puff count		10.9	10.6

Comments

As far as the analytical figures are concerned, there is a significant difference between the blend containing US ET and that using ET from Onnens.

ET-Onnens : TA % : - Δ 0.18
RS % : + Δ 1.3

The TA reduction is confirmed by a decrease in the SN figures.

Tastewise, there is no significant difference. The ET from Onnens will be used in the production of the new MAA, MPK, MAK and MPH cigarettes.

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Source: https://www.industrydocuments.ucsf.edu/docs/xnxk0000

278 EVEREST

Objective

To decrease the TAR delivery of FLINT to 6 mg.

Description of samples and results

In order to achieve the target value, trials were carried out with four different triple filters from Baumgartner and TEXAS blend No CH1239901N02 (containing 27 % of ET-CH).
Two versions of the blend were used :
Version A : without humectants
Version B : with humectants (propylene glycole 1 %, glycerin 1 %)

The filters used differ from each other in the paper tobacco-end section (plug 3) where the RTD and the plasticizer application rate have been changed.
The other non-tobacco materials are those of the current FLINT.
Among the prototypes produced, No 227 was selected by the expert Panel A as the best alternative to the current FLINT.
This will be submitted to the Swiss Marketing Department.

Prototype No		FLI 01	227 P
Blend No		FLINT	CH1239901N02(B)
TA	%	1.23	1.13
Nitrate-nitrogen	%	0.19	0.20
Reducing sugars	%	3.7	2.6
Format : diameter	mm	7.95	7.95
filter length	mm	20	20
cigarette length	mm	79.4	79.4
Total weight	mg/cig.	941	884
Tobacco weight at 12 % O.V.		666	589
Cigarette RTD	mm WG	103	108
Dilution	%	34	39
Cigarette paper		BDP 30	BDP 30
Tipping paper	%	4xM. 0.3.3.5	4xM. 0.3.3.5
Filter : type		Triple	Triple
tow		2.5Y/48-5.0X/ 40/SPA	2.5Y/48-5.0X/ 40-CAF 250
additive		Charcoal/ Meerschaum	Charcoal/ Meerschaum
RTD	mm WG	83	88
TAR	mg/cig.	7.0	6.1
SN	mg/cig.	0.50	0.43
CO	mg/cig.	9.6	8.4
NO	mg/cig.	0.12	0.12
Puff count		7.2	7.2

The cigarettes are smoked on a PM 20 ports.

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Source: https://www.industrydocuments.ucsf.edu/docs/xnxk0000

284 MARYLAND

Objective

To reduce the TAR delivery of the BRUNETTE DOUBLE FILTER (BRD) to 12 mg/cig. Puff count should be kept around 8.

Summary

In view of the Maryland tobacco situation, the blend composition had to be completely revised and a new leaf formula was established. Based on the latter, a cigarette following the standard BRD specifications was produced. Panel D found the cigarette with the modified blend to be similar to the current product. Since February 1981, the modified blend has been used for the current production of BRD and for development purposes.

Description of samples and results

In order to achieve the objective, trials were carried out with different cigarette papers and filters :

Cigarette paper : Pela 200 09
Brauenstein A 4 5030 E 75
Brauenstein BDP 30
Brauenstein BDP 15

Filter : BRD PC 108
2.5 / 48'000 Y / 5.0 / 40'000 X
3.3 / 55'000 Y / 5.0 / 40'000 X

None of these prototypes were within the aimed figures especially as for as the puff count was concerned (it was too low).
Another series of prototypes was made with the same blend but where the expanded stems (10 %) had been taken away.
From this series, prototype No 157 P was chosen because of its analytical figures and organoleptic characteristics.

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Source: https://www.industrydocuments.ucsf.edu/docs/xnxk0000

Prototype No		BRD 01	157 P
Blend No		CH1328404N02	CH1328405N02 without Esther
TA	%	1.12	1.20
Nitrate-nitrogen	%	0.29	0.24
Reducing sugars	%	2.8	3.1
Format : diameter	mm	7.95	7.95
filter length	mm	18	18
cigarette length	mm	79.4	79.4
Total weight	mg/cig.	997	980
Tobacco weight at 12 % O.V.		718	695
Cigarette RTD	mm WG	115	119
Dilution	%	22	20
Cigarette paper	%	Velin 1615	BDP 30
Tipping paper	%	Z3 / 60	Z3 / 60
Filter : type		Double (BRDPC - 108)	
tow		2.5 Y / 55-5.0 X / 40	
additive		------ Charcoal Active ------	
paper		------- FU - POV 40 L -------	
RTD	mm WG	70	74
TAR	mg/cig.	13.5	11.9
SN	mg/cig.	0.80	0.79
CO	mg/cig.	14.0	12.5
NO	mg/cig.	0.29	0.21
Puff count		8.5	8.1

The cigarettes are smoked on PMI 20 ports.

Follow-up

The prototype will be product tested against the current BRD

F. Nagel

PHN/cap/MAY 1 1981

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Source: https://www.industrydocuments.ucsf.edu/docs/xnxk0000